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Ramón Flores (ramonjflores@us.es), Seville, Spain, **Delaram Kahrobaei*** (delaram.kahrobaei@york.ac.uk), York, United Kingdom, and **Thomas Koberda** (thomas.koberda@gmail.com). *Algorithmic Problems in Graph Groups: Complexity and Applications in Cryptography*.

In this talk we consider several classical and novel algorithmic problems for graph groups, some of which are closely related to graph theoretic problems, and study their computational complexity. We study these problems with a view towards applications to cryptography. This is joint work with Ramón Flores and Thomas Koberda, just published in *Journal of Algebra*. (Received January 30, 2019)